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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/753,874	01/09/2004	Hans Joachim Halamoda	7863-80940	6117

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FITCH, EVEN, TABIN & FLANNERY
P. O. BOX 18415
WASHINGTON, DC 20036

EXAMINER

NGUYEN, PHONG H

ART UNIT	PAPER NUMBER
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3724

DATE MAILED: 10/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/753,874

Applicant(s)

HALAMODA ET AL.

Examiner

Phong H. Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 August 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3, 5-12 and 14-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5-12 and 14-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 14 depends on canceled claim 13.

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

4. Claims 9-12 and 16-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Dietz (EP 64263A2).

Regarding claims 9, 10 and 17, Dietz teaches a punching device capable of punching holes on a ceramic substrate comprising: a receiving device 7, a die having a shaft 2, an operative portion having a first part 6 and a second punching part 14, a stripper opening 12, a drive mechanism and a die guide 8. See Figs. 2-4.

Regarding claim 11, the upper portion of the punching portion is unguided in the transverse direction in a ready state as shown in Fig. 1-3.

Regarding claim 12, the die guide device 8 having a bush (upper portion of element 5) with a passage 27 is best seen in Figs. 1-3.

Regarding claim 16, it appears that the length of the operative portion is greater than the stroke of the drive mechanism. See Fig. 1.

Regarding claims 18-21, Dietz teaches a tool for punching a sheet like substrate comprising:

- a lower tool part 7 having a flat receiving face for a substrate;

- an upper tool part;

- a die having a shaft 2, a graduated operative portion including a first part 6 and a second punching part 14, a linear guide 8, a stripper bush 5 having a constant diameter stripper opening 12; and

- a drive mechanism 10. See Figs. 1-3.

Claim Rejections - 35 USC § 103

5. Claims 1-3 and 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dietz (EP 64263A2) in view of Saito (5,848,563).

Regarding claim 1, Dietz teaches a punching device capable of punching holes on a ceramic substrate comprising:

- a receiving device 7, which has a substantially flat receiving face for a ceramic substrate 11, and in which a punched hole is embodied;

- at least one die, which disposed above a punched hole and has a shaft 2 and an operative portion (6 and 14) that extends through a stripper

opening 12, which is disposed in a stripper above the associated respective punched hole and extends to an outer face of the stripper facing the receiving face, and with the operative portion having a first part 6 with a diameter that is less than the diameter of the shaft by a multiple of the diameter of the first part and greater than the diameter of an associated punched hole, and the first part of the operative portion, at its lower end, has a punching portion 14 whose diameter is somewhat less than the diameter of the punched hole and whose length is less than the length of the stripper opening;

a drive mechanism, which is connected in driving fashion to the die in order to move linearly by a defined stroke and in the process to move the punching portion into the punched hole and out of it; and

a die guide device 8, through which the shaft extends and which guides the die at its shaft. See Figs. 1-4.

Dietz is silent whether the receiving device having a plurality of punched holes. Saito teaches a receiving device having a plurality of punched holes. See Figs. 2 and 3.

Therefore, it would have been obvious to one skilled in the art to provide a plurality of punched holes as taught by Saito in the receiving device of Dietz for accommodating different punch sizes.

Regarding claim 2, the upper portion of the punching portion is unguided in the transverse direction in a ready state as shown in Fig. 1-3.

Regarding claim 3, the die guide device 8 having a bush (upper portion of element 5) with a passage 27 is best seen in Figs. 1-3.

Regarding claim 5, choosing the length of the punching stroke is well known in the art since the length of the punching stroke depends on the length of the punching portion, the thickness of the workpiece and the distance between the tip of the punching portion and the workpiece. Therefore, it would have been obvious to one skilled in the art to select a stroke length equal to the length of the punching portion since such practice is well known in the art.

Regarding claim 6, it appears that the length of the operative portion is greater than the stroke length of the drive mechanism. See Fig. 1.

Regarding claim 7, the punched hole and a slug conduit having a greater diameter than the punched hole are best seen in Figs. 1-3.

Regarding claim 8, the diameter of the shaft 2 is a multiple of the diameter of the first part 14 of the operative portion. See Fig. 1.

6. Claims 14 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Dietz (EP 64263A2).

Choosing the length of the punching stroke is well known in the art since the length of the punching stroke depends on the length of the punching portion, the thickness of the workpiece and the distance between the tip of the punching portion and the workpiece. Therefore, it would have been obvious to one skilled in the art to select a stroke length equal to the length of the punching portion since such practice is well known in the art.

Response to Arguments

7. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phong H. Nguyen whose telephone number is 571-272-4510. The examiner can normally be reached on Mon-Fri.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer Ashley can be reached on 571-272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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T.V. Eley
Timothy V. Eley
Primary Examiner

October 12, 2006